

OPEN-FILE REPORT
This report has not been edited for conformity with
U.S. Geological Survey editorial standards or
stratigraphic nomenclature.

EXPLANATION

NON-FEDERAL COAL LAND—Land for which the
Federal Government does not own the coal rights.

STRIPPING-LIMIT LINE—Boundary for surface mining
of the coal bed (in this quadrangle, the 500-foot
overburden isopach). Arrows point toward the area
suitable for surface mining. Recovery factor of 85 per-
cent within that area of this quadrangle.

POINT OF MEASUREMENT ON COAL BED

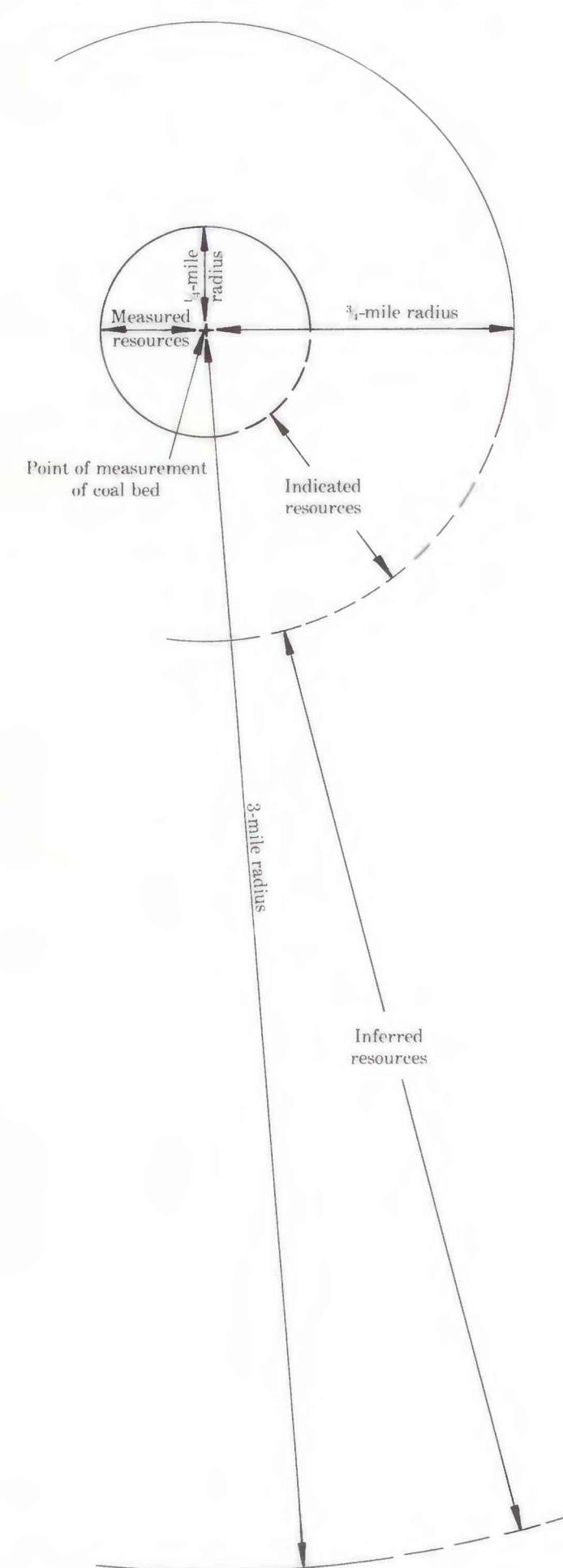


DIAGRAM SHOWING COMPONENT AREAS OF
IDENTIFIED COAL RESOURCES—Shows arcuate
boundary lines enclosing areas of measured, indicated,
and inferred coal resources. Boundaries of areas are
dashed where projected from an adjacent quadrangle.
Areas of measured, indicated, or inferred resources
may be present on this map without their outer
boundaries being shown. Coal resources beyond the
inferred category are hypothetical resources.

RB	R(85%)	
—	—	(Measured resources)
—	—	(Indicated resources)
4.80	4.08	(Inferred resources)
0.26 HYP	—	(Hypothetical resources)

IDENTIFIED AND HYPOTHETICAL COAL
RESOURCES—Showing totals for Reserve Base (RB),
Reserves (R), and Hypothetical (HYP) resources, in
millions of short tons, for each section or part(s) of a
section of Federal coal land within the stripping-limit
line. Dash indicates no resources in that category.
Reserve Base (RB) X the Recovery Factor (85 percent) =
Reserves (R).

RB	R(85%)	
—	—	(Measured resources)
—	—	(Indicated resources)
14.20	—	(Inferred resources)
4.14 HYP	—	(Hypothetical resources)

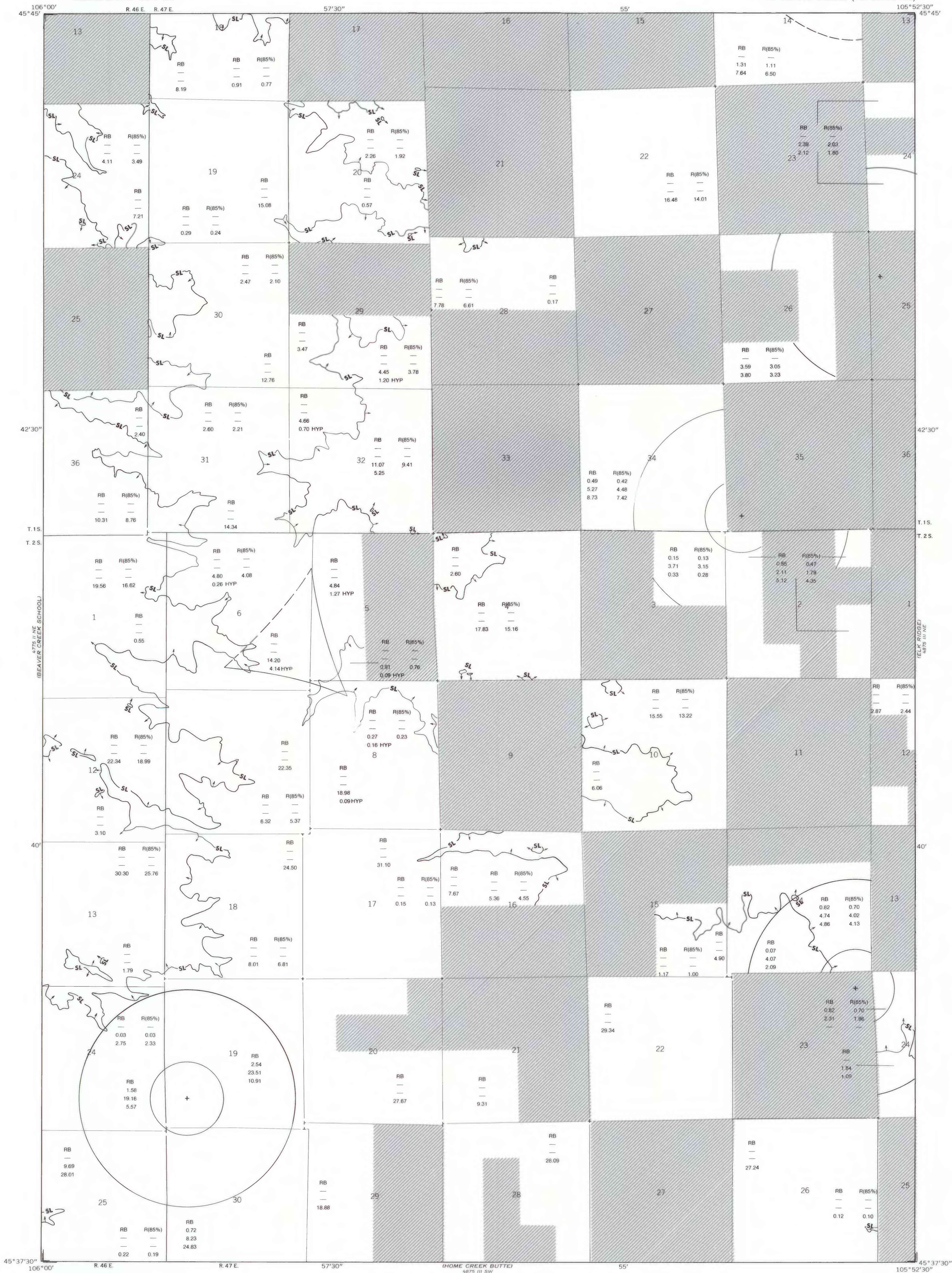
IDENTIFIED AND HYPOTHETICAL COAL
RESOURCES—Showing totals for Reserve Base (RB)
and Hypothetical (HYP) resources, in millions of short
tons, for each section or part(s) of a section of Federal
coal land outside the stripping-limit line. Dash indicates
no resources in that category.

NOTE: Recovery factors have not been established for
underground development of coal in this quadrangle.
Therefore, Reserves (R) were not calculated for the coal
bed in areas outside the stripping-limit line.

To convert short tons to metric tons, multiply short tons by
0.9072.

To convert feet to meters, multiply feet by 0.3048.

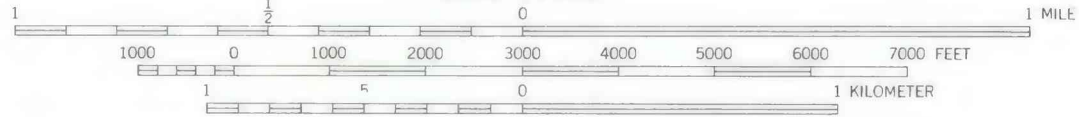
To convert miles to kilometers, multiply miles by 1.61.



Base map from U.S. Geological Survey, 1966

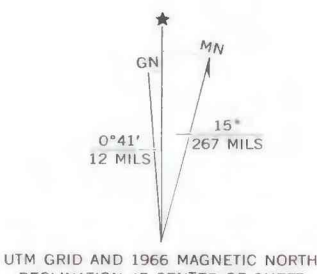
(HOME CREEK BUTTE)
4875 III SW

SCALE 1:24,000



Compiled in 1977

(SAMUELSON RANCH)
4875 III E



COAL RESOURCE OCCURRENCE MAP OF THE STACEY QUADRANGLE,
POWDER RIVER COUNTY, MONTANA

BY
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979